Q-SWITCH DELAY

REV.	BRIEF DESCRIPTION OF CHANGE	ECO	DATE	BY	APPR.

SEE SHEET 13

SH 2 QSWDLY

0V = MAX DLY
10V = MIN DLY

Q-SW DLY

VN10KM Q16 · C98 0.1 1% · C97 0.1 · R121 6.8K · U41 AD817AN · C96 0.1 · U11 LM319N · RN1 10K · CR14 5.1V · C22 0.1 · U60 LF347N · RN2 10K · C130 0.1 · U57 LF347N · R293 50K MAX DLY · C131 0.1 · R294 50K MIN DLY

SH 9 FFRST

Q -SW DELAY

50-300us Q-DLY TP53

C23 0.1 · C24 0.1 · R118 680 · R117 680 · U12 CD4027 (VDD SET J K CLK VSS RESET Q Q̄)

SH 3 QDLY

SH 9 INT40

C4 220PF · U28 TC4426 · 1N914 CR32 · R116 1K

EXTERNAL LAMP REP RATE LIMITER

TP40 CLOCK · C154 .001 · R217 20K · U71 CD4013B (SET CLK D RESET VSS Q Q̄)

SH 3, 4 INT9

C153 .001 · R216 20K · U71 CD4013B

C150 0.1 · C50 1.0 · R149 500K · R148 20K · U69 CD4098 (CX +TR -TR RESET RX Q1 Q̄1 VSS)

TP41 PULSE · C148 0.1 1%

EXT REP RATE LIMITER

C219 0.1 · C220 0.1 · U31 LF347N · U87 LF347N · -5.0V SH 9 · +5.0

R150 RNRF · R151 80.6K · R152 133K · R153 402K · W2 W3 W4 W5 · NRF 50HZ 30HZ 10HZ

EXT LAMP LMT · EXT LAMP INHIBIIT · C111 .01 · H = NOK

R17 20K · 1N914 · CR24 · U26 LM339AN · SH 9 SLOW RAMP · 10VREF SH 9

U47 CD4093 · CX01 SH 3 EXT LAMP INHIBIT · H = ENABLE · CX02 SH 3

CR20 LM236-5.0

P-CAD 5.1
FILE:MAIN10.SCH

QTY	ITEM	PART NUMBER	DESCRIPTION

	NAME	DATE
DFTS.	DUKE	9/94
CHK.		
ENG.	S.LAWRENCE	9/94
MFG.		

MODEL | NEXT ASSY. | FINISH:

Spectra-Physics — MOUNTAIN VIEW CA 94042

TOLERANCES, UNLESS OTHERWISE SPECIFIED: .X ± mm: ± .XX ± ANGLES: ± .XXX ± SURF.FIN: ±

CONFIDENTIAL: SPECTRA-PHYSICS PROPRIETARY

GENERAL TOLERANCES PER S-P DOCUMENT NO. C-5124

SCHEMATIC
MAIN CONTROL P.C.B.

SCALE	SIZE	DRAWING NUMBER	SHEET	REV.
NONE	D	0449-4020	10 OF 13	D

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